

CURRICULUM VITAE

NAME: Michael S. Beauchamp

PRESENT TITLE: Assistant Professor
Department of Neurobiology and Anatomy
University of Texas Medical School at Houston
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ADDRESS: 3910 Southwestern Street
Houston, Texas 77005-4339

BIRTHDATE: December 15, 1970

CITIZENSHIP: U.S.A. and Canada (dual citizen)

UNDERGRADUATE EDUCATION:

1988-1992 Harvard University, Cambridge, MA.
A.B. *cum laude* in Biology, 1992

GRADUATE EDUCATION:

1992-1997 University of California, San Diego. San Diego, CA.
M.S. 1994 (Neurosciences), Ph.D. 1997 (Neurosciences)
co-advisors Edgar DeYoe, Thomas Albright

POSTGRADUATE TRAINING:

1997-2000 IRTA Fellow, Section on Functional Brain Imaging,
Laboratory of Brain and Cognition, National Institute of
Mental Health, Bethesda, Maryland. Advisor: James Haxby

2000-2005 Research Fellow, Section on Cognitive Neuropsychology,
Laboratory of Brain and Cognition, National Institute of
Mental Health, Bethesda, Maryland. Advisor: Alex Martin

ACADEMIC APPOINTMENTS:

July 2005-present	Assistant Professor, Department of Neurobiology and Anatomy, University of Texas Medical School at Houston
Sept 2005-present	Adjunct Professor, Departments of Psychology and Bioengineering, Rice University, Houston, Texas
Sept 2005-present	Special Volunteer, National Institute of Mental Health Intramural Research Program
April 2006-present	Adjunct Professor, Department of Neuroscience, Baylor College of Medicine, Houston, Texas
April 2007-Sept 2010	Adjoint Professor, Tri-Institutional Department of Biomedical Engineering, University of Texas
Jan 2011-present	Member, UTHealth Consortium on Aging

PROFESSIONAL ORGANIZATIONS:

1991-present	Society for Neuroscience
1996-present	Organization for Human Brain Mapping
1997-present	Cognitive Neuroscience Society
2001-present	American Association for the Advancement of Science
2001-present	American Physiological Society
2001-present	Association for Psychological Science (formerly Am. Psych. Society)
2003-present	Vision Sciences Society

HONORS AND AWARDS:

1990 - 1992	Ford Foundation Fellowship for Undergraduate Research
1992 - 1997	Howard Hughes Medical Institute Predoctoral Fellowship
1993	Fellowship to the Cold Spring Harbor Course in Functional Neuroimaging
1996	Fellowship to the McDonnell Summer Institute in Cognitive Neuroscience
1999, 2000	NIH Fellows Award for Research Excellence
2002	Fellowship to the Burroughs Wellcome Fund Course in Scientific Management
2010	Best Lecturer in Neuroscience, University of Texas Medical School

SERVICE ON NATIONAL AND INTERNATIONAL GRANT REVIEW PANELS, STUDY SECTIONS, AND COMMITTEES:

2003	<i>ad hoc</i> reviewer, National Science Foundation Behavioral and Cognitive Sciences (NSF BCS) Division
2004	<i>ad hoc</i> reviewer, NSF BCS Division NIH Special Emphasis Panel

- 2005 United Kingdom Medical Research Council *ad hoc* reviewer
- 2008 NIH Study Section on Biomedical Imaging Technology (BMIT)
- 2009 Department of Veteran's Affairs Neurodegenerative Diseases and Aging panel (RRD6) and Sensory Systems panel (RRD3)
- 2009 NSF BCS Review Panel
- 2010 Hong Kong National Science Research Program
NIH Special Emphasis Panel ZRG1 IFCN-E (04) M
Chair-Elect, Education Committee, Organization for Human Brain Mapping
Member, Program Committee, Organization for Human Brain Mapping
European Research Program Reviewer
- 2011 Chair, Education Committee, Organization for Human Brain Mapping
Member, Program Committee, Organization for Human Brain Mapping

Ad hoc reviewer for the following journals

Brain and Language	Learning and Memory
Cerebral Cortex	Nature
	Neuroscience Letters
Cognitive Brain Research	Nature Neuroscience
Cognitive Neuropsychology	Neuroimage
Computers in Medicine and Biology	Neuron (24 manuscripts)
Current Biology	Neuropsychology
European Journal of Neuroscience	Neuropsychologia
Experimental Brain Research	Proceedings of the National Academy of Sciences
Frontiers in Neuroscience	Psychiatry Research: Neuroimaging
Human Brain Mapping	
Journal of Cognitive Neuroscience	Psychological Science
Journal of Experimental Psychology: General	Psychonomic Bulletin & Review
Journal of Neuroscience	

OTHER NATIONAL AND INTERNATIONAL ACTIVITIES:

- 2000 Invited Speaker, Educational Program, Organization for Human Brain Mapping Annual Meeting. San Antonio, Texas.
- 2002 Organizing Committee, "fMRI Experience IV" Conference (Bethesda, MD)
- 2003 Organizing Committee, "fMRI Experience V" Conference (London, UK)
- 2004 Invited Speaker, Symposium on Multisensory Integration and Human Cortical Object Recognition. International Multisensory Research Forum (Barcelona, Spain).
- 2005 Keynote Speaker at International Symposium on Imaging the Brain--From Bench to Bedside (Hakone, Japan)

- 2006 Invited Speaker, 34th NIPS Meeting, SEIRIKEN / SOKENDAI International Symposium on Cross-modal integration and plasticity: multidisciplinary approaches using noninvasive functional neuroimaging techniques (Okazaki, Japan)
- Invited Speaker, 7th Annual IEEE Conference on Automatic Face and Gesture Recognition (Southampton, UK)
- Member, Scientific Advisory Board, Organization for Human Brain Mapping Annual Meeting
- Invited Speaker, 4th Annual Workshop on the Analysis of Functional Images (Pisa, Italy)
- 2009 Featured Symposium Speaker, American Epilepsy Society (Boston, MA)
- 2010 Featured Symposium Speaker, Association for Chemoreception Sciences (St. Petersburg, FL)
- Invited speaker, International Conference on Reverse Engineering the Brain (Dubrovnik, Croatia)
- Organizer, AFNI Boot Camp, International Workshop on fMRI analysis (64 attendees)

INVITED LECTURES AT UNIVERSITIES AND RESEARCH INSTITUTES (Since 2001):

- 2001 Georgetown University Institute for Cognitive and Computational Sciences Seminar
- 2002 Montreal Neurological Institute Research Seminar
 Medical College of Wisconsin Biophysics Research Institute Symposium
- 2003 Integrative Neuroscience Interest Group, N.I.H.
 West Virginia University Center for Advanced Imaging Seminar
 Centre National De La Recherche Scientifique (Caen, France) Seminar
 Washington University in St. Louis Neuroimaging Laboratory Seminar
 Georgetown University Department of Neurology Conference
 University of Minnesota Department of Psychology Seminar
 University of Illinois, Urbana-Champaign Psychology Seminar
- 2004 University of California, Irvine, Cognitive Science Colloquium
 Indiana University Psychology Department Seminar
 Rutgers University—Newark Department of Psychology
 West Virginia University Department of Neurobiology and Anatomy
 Dalhousie University Brain Repair Centre Lecture
 University of Texas at San Antonio Biology Department Seminar
 University of Iowa Medical Center Department of Neurology
 University of Texas Houston Health Science Center Lecture
- 2005 RIKEN Brain Science Institute Invited Seminar. Tokyo, Japan.

Washington V.A. Hospital Neurology Grand Rounds
Rice University Cognitive Neuroscience Tea Lecture Series
University of Houston School of Optometry Periopsia Seminar Series

- 2006 Research Seminar, University of Texas School of Health Information Sciences at Houston
Neurosurgery Grand Rounds, University of Texas Medical School
Neuroscience Seminar Series, Baylor College of Medicine
Department of Ophthalmology Seminar, University of Texas Medical School
- 2007 Texas A&M University Neuroscience Lecture Series
Research Seminar, University of Texas School of Health Information Sciences at Houston
Neurosurgery Grand Rounds, University of Texas Medical School
Neuroscience Seminar Series, Baylor College of Medicine
Department of Ophthalmology Seminar, University of Texas Medical School
- 2008 UCSF/Integra Neurosciences Workshop on Electrocorticography
McGill University Neuroscience Program Lecture Series
Department of Neurobiology and Anatomy Colloquium, University of Texas Medical School at Houston
Rice University Department of Psychology Cognitive Tea
Invited Speaker, Houston Society of Engineering in Medicine and Biology Vision Symposium
Invited Speaker, 18th Annual TENNET Meeting on Theoretical & Experimental Neuropsychology (Waterloo, Ontario, Canada).
- 2009 Association for Research in Memory (ARMADILLO), Rice University
Department of Psychiatry and Behavioral Sciences Grand Rounds, University of Texas Medical School
Colloquium Speaker, Center for Brain Health, University of Texas Southwestern Medical Center and University of Texas at Dallas
Department of Psychiatry Grand Rounds, Michael E. DeBakey Veteran's Administration Medical Center
Texas Children's Hospital Neuroimaging Special Interest Group
- 2010 Brown Family Foundation Institute of Molecular Medicine Seminar Series, Houston, TX
University of Minnesota Department of Psychology Colloquium
University of Missouri Department of Psychology Colloquium
Department of Neurobiology and Anatomy Colloquium, University of Texas Medical School at Houston
Department of Biology Seminar Series, University of Texas at San Antonio
Psychology Department Colloquium, Rice University, Houston, TX
- 2011 York University (Toronto, Ontario, Canada) Department of Psychology Colloquium
Vanderbilt University Department of Hearing and Speech Sciences Seminar

Rice University (Houston, TX) B.R.A.I.N. Undergraduate Neuroscience Symposium Keynote
Lecturer
Houston Brain Behavior and Imaging Group (BBIG)

SERVICE ON UNIVERSITY OF TEXAS MEDICAL SCHOOL AT HOUSTON COMMITTEES:

Medical School Information Technology Committee (2006 – present)

SPONSORSHIP OF CANDIDATES FOR POSTGRADUATE DEGREE:

Nafi Yasar	2005 - 2009
Dona Murphey	2006 – 2009
Audrey Nath	2008 – present
Sarah Baum	2010 – present

SPONSORSHIP OF POSTDOCTORAL FELLOWS:

Siavash Pasalar, Ph.D.	2008 – present
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TEACHING RESPONSIBILITIES AND DEPARTMENTAL SERVICE AT THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON:

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| 2005 | Lecturer (2 lectures), University of Texas Graduate School of Biomedical Sciences (UT GSBS) GS 140021: Neurobiology of Disease
Lecturer, UT GSBS GS 140611: Current Topics in Neuroscience |
| 2006 | Course director UT GSBS GS 0023 (also cross-listed as Rice Psychology 471/571 and Rice Bioengineering 471), “Introduction to fMRI”. Developed curriculum and instructed 20 students in hands-on fMRI course.
Lecturer (2 lectures) UT GSBS GS 140611: Systems Neuroscience
Lecturer, UT GSBS GS 140611: Current Topics in Neuroscience |
| 2007 | UT Medical School (MS-1) Neuroscience Block 1, Human Functional Neuroimaging
Lecturer, UT GSBS GS 140611: Current Topics in Neuroscience |
| 2008 | Course director UT GSBS GS 0023 (also cross-listed as Rice University Psychology 571 and Rice Bioengineering 571 and Baylor College of Medicine GS-NE-439), “Introduction to fMRI”. |
| 2009 | Laboratory Instructor, MS-1 Medical Neuroanatomy Laboratory (12 Laboratories)
Exam Proctor, MS-1 Neuroscience
Lecturer (2 lectures) UT GSBS GS 140611: Systems Neuroscience |

Lecturer, UT GSBS GS 140611: Current Topics in Neuroscience

- 2010 Course director UT GSBS GS 0023 (also cross-listed as Rice University Psychology 571 and Rice Bioengineering 571 and Baylor College of Medicine GS-NE-439), “Introduction to fMRI”.
Laboratory Instructor, MS-1 Medical Neuroanatomy Laboratory (12 Laboratories)
Lecturer, MS-1 Medical Neuroanatomy Laboratory (7 Lectures)
Exam Proctor, MS-1 Neuroscience
Lecturer (6 lectures) UT GSBS GS 140012: Introduction to Cognitive Neuroscience
Co-director, Track in Cognitive and Systems Neuroscience, Neuroscience Graduate Program
Member, Committee on Joint UT/Rice Graduate Cognitive Neuroscience Program
Organizer, AFNI Short Course. Week-long short course for 65 faculty, post-doctoral fellows and students. See <http://openwetware.org/wiki/Beauchamp:ShortCourse2010> for details.

OTHER EDUCATIONAL, OUTREACH AND MENTORING ACTIVITIES:

- 1996 Teaching Assistant, Integrated Medical Neuroscience, Medical College of Wisconsin, Milwaukee, Wisconsin.
- 2001-2004 Guest Lecturer, *Functional Neuroimaging and Cognition*. Georgetown University SC-523/NSC-217. Course director: Guinevere Eden.
- 1997-2004 Instructor, ‘Functional Magnetic Resonance Imaging: An Introductory Course’, Medical College of Wisconsin. Course director: Stephen Rao. Lectured on multiple regression and deconvolution as tools for analysis of fMRI time series for an international group of course participants. Led small group workshops on the use of AFNI for analysis of fMRI data. Course is held in the spring and fall of each year.
- 2000 – 2006 Instructor, American Psychological Association Advanced Training Institute on fMRI. Course is held once each year. Course director: Robert Savoy.
- 1997 – 2006 Instructor and Curriculum Consultant, fMRI Visiting Fellowship Program, Massachusetts General Hospital. Intensive instruction and hands-on experimental design, data acquisition and analysis for thirty to forty students per class. Course director: Robert Savoy. Course is held three times per year.
- 2002-2004 Course director and Primary Instructor, *Experimental Cognitive Neuroscience: fMRI and More*. Biology 411, Foundation for Advanced Education in the Sciences Graduate School at the National Institutes of Health.

- 2005 Lecturer, Rice University Biomedical Engineering 551 "Introduction to Bioengineering"
Lecturer, Rice University Psychology 667 "Cognitive Neuroscience II"
UT Neuroscience Research Center Annual Poster Day Poster Judge
- 2006 Mentor, University of Texas Summer Undergraduate Research Program. Mentees Allison Mackey, Department of Psychology, Queens University; Eszter Zavodszky, Department of Psychology, University of Michigan.
UT Neuroscience Research Center Annual Poster Day Poster Judge
UT GSBS Rotation Advisor, Vaibhav Juneja, Dan Babcock, Shilpa Gandhi, Audrey Nath.
Lecturer, Rice University Biomedical Engineering 551 "Introduction to Bioengineering"
Mentor, Rice University Undergraduate Research Program. Neel Kishan, mentee.
Mentor, Rice University Undergraduate Research Program. Nancy Lin, mentee.
University of Texas Graduate School of Biomedical Sciences Graduate School Education Committee annual poster judge
- 2007 Lecturer, Rice University Psychology 667 "Cognitive Neuroscience II"
Lecturer, Rice University Biomedical Engineering 551 "Introduction to Bioengineering"
Examination Committee, Anne Netek, UT GSBS Graduate Student
Examination Committee, Brian Kalmbach, UT GSBS Graduate Student
Examination Committee, Diego Gutnisky, UT GSBS Graduate Student
Presenter, Brain Awareness Night, McGovern Museum of Health & Medical Science
- 2008 Thesis Committee, Diego Gutnisky, UT GSBS Graduate Student
Mentor, Rice University Century Scholars Undergraduate Excellence Program. Molly Bryan, mentee.
Thesis Committee, Manivannan Subramaniyan, Baylor College of Medicine Department of Neuroscience Graduate Student
Examination committee, Lauren (Caitlin) Elmore, UT GSBS Graduate Student
Examination Committee, Bryan Hansen, UT GSBS Graduate Student
Presenter, Brain Awareness Night, McGovern Museum of Health & Medical Science
KTRK ABC 13 News. Feature story on fMRI of neuroeconomics by Christi Myers, HealthCheck Correspondent
<http://picasaweb.google.com/MICHAEL.S.BEAUCHAMP/Channel13News>
- 2009 Guest Lecturer, Rice University Psychology 667 "Cognitive Neuroscience II"
Guest Lecture, Rice University Psychology 203 "Introduction to Cognitive Psychology."
Mentor, University of Texas Medical School Summer Research Program. John Westley Ohman, mentee.

Thesis Committee, Wen Zhou, Rice University Department of Psychology
Thesis Committee, Sara Haber Halcomb, Rice University Department of Psychology
Presenter, Brain Awareness Night, McGovern Museum of Health & Medical Science
Thesis Committee, Lauren (Caitlin) Elmore, UT GSBS Graduate Student
Examination committee, Anthony Passaro, UT GSBS Graduate Student
Advisory Committee, Sheshali Wanchoo, UT GSBS Graduate Student
Advisory Committee, Lauren (Caitlin) Elmore, UT GSBS Graduate Student
Advisory Committee, Anthony Passaro, UT GSBS Graduate Student
Advisory Committee, Chad Bircher, UT GSBS Graduate Student (MD Anderson)
West University Elementary School Science Night
Created brain education display for 550 elementary school children.
KTRK ABC 13 News. Feature story on fMRI and depression by Christi Myers, HealthCheck Correspondent

2010 Presenter, Brain Awareness Night, McGovern Museum of Health & Medical Science
West University Elementary School Science Night; Organized medical school volunteers for 550 elementary school children.
Guest Lecture, Rice University Psychology 203 “Introduction to Cognitive Psychology.”
Speaker, “Scientist for a Day”; science outreach program for at-risk 4th graders
Advisory Committee, George Heberton, MS1, Scholarly Concentration in Neuroscience
Poster judge, REU Summer Undergraduate Research Experience poster competition
Mentor, Adam Burch, REU summer undergraduate program participant

2011 Presenter, Brain Awareness Night, McGovern Museum of Health & Medical Science
West University Elementary School Science Night; Organized medical school volunteers for 550 elementary school children.
Guest Lecture, Rice University Psychology 203 “Introduction to Cognitive Psychology.” (Tatiana Schnur, Course Director)
Guest Lecturer, Rice University Psychology 330 “Biopsychology” (Timothy Elmore, Course Director)
Qualifying Examination Committee Member for Mingbo Cai, Baylor College of Medicine Graduate Program in Neuroscience (Eagleman Lab)

CURRENT GRANT SUPPORT

National Institutes of Health, National Institute of Neurological Diseases and Stroke

Grant Number R01 NS065395 (February 1, 2010 – January 31, 2015)

Title: Neural Mechanisms of Optimal Multisensory Integration

Role: Principal Investigator

\$1,470,525 in direct and indirect costs.

National Science Foundation Cognitive Neuroscience Initiative

Proposal 0642532 (September 1, 2007 – August 31, 2011)

Title: Collaborative Research: Multisensory Influences on Touch Perception--fMRI, MEG and TMS Studies

Role: Principal Investigator

\$427,560 in direct and indirect costs.

National Institutes of Health, National Institute on Deafness and Other Communication Disorders

Grant Number R56 DC-010164 (August 1, 2010 – July 31, 2011)

Title: Translation of near-infrared spectroscopy for use in clinical neuroimaging of deaf children after cochlear implantation.

Role: Co-Investigator (15% effort) (PI: John Oghalai, MD)

\$375,000 in direct and indirect costs.

Veterans Administration Clinical Science Research and Development Merit Award

Grant Number 1I01CX000325-01A1 (April 1, 2011 – March 31, 2014)

Title: Mechanism of Rapid Object Recognition in Human Ventral Temporal Cortex

Role: Co-investigator (25% effort) (PI: Daniel Yoshor, MD)

\$619,000 in direct and indirect costs.

PENDING GRANT SUPPORT

National Institutes of Health, National Institute of Child Health and Development

Title: MRI and fMRI of Cerebellar Motor Learning in Spina Bifida (PI: Jenifer Juranek, PhD)

Role: Co-investigator (25% effort)

Dates: 10/1/2010 – 9/31/2014

PAST GRANT SUPPORT

University of Texas Startup Funds (July 2005 – June 2009)

University of Texas Clinical and Translational Sciences Pilot Award

Rapid Sensory Processing in Well and Poorly Compensated Young Adults with Dyslexia
(October 1, 2007 – October 1, 2009)

Role: Co-investigator (Richard Frye, MD, PhD, Principal Investigator)

\$50,000

University of Texas Clinical and Translational Sciences Pilot Award

The Anatomic and Physiologic Connectivity of Eloquent Language Regions
(October 1, 2007 – October 1, 2009)
Role: Co-investigator (Nitin Tandon, MD Principal Investigator)
\$50,000

PUBLICATIONS:

A. Refereed Original Research Articles in Journals:

1. Beauchamp, M.S., Cox, R.W., and DeYoe, E.A.: Graded effects of spatial and featural attention on human area MT and associated motion processing areas. *J Neurophysiol* 77: 516-520, 1997.
2. Beauchamp, M.S., Haxby, J.V., Jennings, J.E., and DeYoe, E.A.: An fMRI version of the Farnsworth-Munsell 100-Hue test reveals multiple color-selective areas in human ventral occipitotemporal cortex. *Cereb Cortex* 9: 257-263, 1999.
3. Beauchamp, M.S., Haxby, J.V., Rosen, A.C., and DeYoe, E.A.: A functional MRI case study of acquired cerebral dyschromatopsia. *Neuropsychologia* 38: 1170-1179, 2000.
4. Lewis, J.W., Beauchamp, M.S., and DeYoe, E.A.: A comparison of visual and auditory motion processing in human cerebral cortex. *Cereb Cortex* 10: 873-888, 2000.
5. Beauchamp, M.S., Petit, L., Ellmore, T.M., Ingelholm, J., and Haxby, J.V.: A parametric fMRI study of overt and covert shifts of visuospatial attention. *Neuroimage* 14: 310-321, 2001.
6. Beauchamp, M.S., Lee, K.E., Haxby, J.V., and Martin, A.: Parallel visual motion processing streams for manipulable objects and human movements. *Neuron* 34: 149-159, 2002.
7. Beauchamp, M.S.: Detection of eye movements from fMRI data. *Magn Reson Med* 49: 376-380, 2003.
8. Beauchamp, M.S., Lee, K.E., Haxby, J.V., and Martin, A.: FMRI responses to video and point-light displays of moving humans and manipulable objects. *J Cogn Neurosci* 15: 991-1001, 2003.
9. Petit, L., and Beauchamp, M.S.: Neural basis of visually guided head movements studied with fMRI. *J Neurophysiol* 89: 2516-2527, 2003.
10. Beauchamp, M.S., Lee, K.E., Argall, B.D., and Martin, A.: Integration of auditory and visual information about objects in superior temporal sulcus. *Neuron* 41: 809-823, 2004.
11. Beauchamp, M.S., Argall, B.D., Bodurka, J., Duyn, J.H., and Martin, A.: Unraveling multisensory integration: patchy organization within human STS multisensory cortex. *Nat Neurosci* 7: 1190-1192, 2004.

12. Beauchamp, M.S.: Statistical criteria in fMRI studies of multisensory integration. *Neuroinformatics* 3: 93-114, 2005.
13. Van Boven, R.W., Ingeholm, J.E., Beauchamp, M.S., Bickle, P.C., and Ungerleider, L.G.: Tactile form and location processing in the human brain. *Proc Natl Acad Sci U S A* 102: 12601-12605, 2005.
14. Amedi, A., von Kriegstein, K., van Atteveldt, N.M., Beauchamp, M.S., and Naumer, M.J.: Functional imaging of human crossmodal identification and object recognition. *Exp Brain Res* 166: 559-571, 2005.
15. Wheatley, T., Weisberg, J., Beauchamp, M.S., and Martin, A.: Automatic priming of semantically related words reduces activity in the fusiform gyrus. *J Cognit Neurosci* 17: 1871-1885, 2005.
16. Furey, M.L., Tanskanen, T., Beauchamp, M.S., Avikainen, S., Uutela, K., Hari, R., and Haxby, J.V.: Dissociation of face-selective cortical responses by attention. *Proc Natl Acad Sci U S A* 103: 1065-1070, 2006.
17. Argall, B. D., Saad, Z. S., and Beauchamp, M. S.: Simplified intersubject averaging on the cortical surface using SUMA. *Hum Brain Mapp* 27:14-27, 2006.
18. Beauchamp, M. S., and Martin, A.: Grounding object concepts in perception and action: evidence from fMRI studies of tools. *Cortex* 43:461-468, 2007.
19. Simmons, W. K., Ramjee, V., Beauchamp, M. S., McRae, K., Martin, A., and Barsalou, L. W.: A common neural substrate for perceiving and knowing about color. *Neuropsychologia* 45:2802-2810, 2007.
20. Beauchamp, M. S., Yasar, N. E., Kishan, N., and Ro, T.: Human MST but not MT responds to tactile stimulation. *J Neurosci* 27:8261-8267, 2007.
21. Ro, T., Farne, A., Johnson, R., Wedeen, V., Chu, Z., Want, Z., Hunter, J., and Beauchamp, M.S.: Feeling sounds after a thalamic lesion. *Annals of Neurology* 62:433-441, 2007.
22. Murphey, D., Yoshor, D., and Beauchamp, M.S.: Perception Matches Selectivity in the Human Anterior Color Center. *Current Biology* 18:216-220, 2008.
23. Beauchamp, M.S., Yasar, N.E., Frye, R.E., and Ro, T.: Touch, sound and vision in human superior temporal sulcus. *Neuroimage* 14:1011-1020, 2008.
24. Dulay, M. F., Murphey, D.K., Sun, P., David, Y.B., Maunsell, J.H., Beauchamp, M.S., Yoshor, D. Computer-controlled electrical stimulation for quantitative mapping of human cortical function. *J Neurosurg.* 2009 Jun;110(6):1300-3.

25. Beauchamp, M. S. and Ro, T. Neural substrates of sound-touch synesthesia after a thalamic lesion. *J Neurosci*, 28(50):13696-702, 2008.
26. Frye, R.E., and Beauchamp, M.S. Receptive language organization in high-functioning autism. *Journal of Child Neurology*, Feb; 24(2) 231-236, 2009.
27. Saad, Z.S., Glen, D.R., Chen, G., Beauchamp, M.S., Desai, R., Cox, R.W. A new method for improving functional-to-structural MRI alignment using local Pearson correlation. *Neuroimage*, Feb 1; 44(3):839-848, 2009.
28. Beauchamp, M.S., LaConte S., Yasar, N. Distributed representation of single touches in somatosensory and visual cortex. *Human Brain Mapping*, 2009 Oct; 30(10):3163-71.
29. Murphey, D., Maunsell, J.H.R., Beauchamp, M.S.*, Yoshor, D.* Perceiving electrical stimulation of identified human visual areas. *Proceedings of the National Academies of Sciences*, 106(13):5389-93, 2009. (* these two authors contributed equally to this work)
30. Ro, T., Hsu J., Yasar, N., Elmore C.L., Beauchamp, M.S. Sound enhances touch perception. *Experimental Brain Research* 195:135-143, 2009.
31. Ellmore, T.M., Beauchamp, M.S., O'Neill T.J., Dreyer, S., Tandon, N. Relationships between essential cortical language sites and subcortical pathways. *Journal of Neurosurgery*, 2009 Oct;111(4):755-66..
32. Ellmore TM, Beauchamp MS, Breier JI, Slater JD, Kalamangalam GP, O'Neill TJ, Disano MA, Tandon N. Temporal lobe white matter asymmetry and language laterality in epilepsy patients. *Neuroimage*. 2010 Feb 1; 49(3):2033-44.
33. Beauchamp, M.S., Nath, A., Pasalar, S. fMRI-Guided transcranial magnetic stimulation reveals that the superior temporal sulcus is a cortical locus of the McGurk effect. *J Neurosci*. 2010 Feb 17;30(7):2414-7..
34. Frye, R.E., Liederman, J., Malmberg, B., McLean, J., Strickland, D., Beauchamp, M.S. Surface Area Accounts for the Relation of Gray Matter Volume to Reading-Related Skills and History of Dyslexia. *Cerebral Cortex*, 2010 Feb 12.
35. Pasalar, S., Ro, T., Beauchamp, M.S. TMS of Posterior Parietal Cortex Disrupts Visual Tactile Multisensory Integration. *European Journal of Neuroscience*, 31: 1783-90, 2010. *Special Issue on Multisensory Integration*.
36. Beauchamp, M.S., Pasalar, S., Ro, T. Neural substrates of reliability-weighted visual-tactile multisensory integration. *Frontiers in Systems Neuroscience*, 4(25): 1-11, 2010. *Special issue on Connectivity and Brain Disorders*.
37. Sevy, A.B.G., Bortfeld, H, Huppert, T.J., Beauchamp, M.S., Tonini, R.E., Oghalai, J.S. Neuroimaging with Near-Infrared Spectroscopy Demonstrates Speech-Evoked Activity in the Auditory Cortex of Deaf Children Following Cochlear Implantation. *Hearing Research*, 2010 Dec; 270: 39-47.

38. Nath, AR and Beauchamp, MS. Dynamic Changes in Superior Temporal Sulcus Connectivity During Perception of Noisy Audiovisual Speech. *Journal of Neuroscience*, 2011 Feb 2;31(5):1704-1714.

B. Invited Articles

1. Beauchamp, M.S.: Functional MRI for beginners. *Nature Neuroscience* 5: 397-398, 2002.
2. Beauchamp, M.S.: See me, hear me, touch me: multisensory integration in lateral occipital-temporal cortex. *Curr Opin Neurobiol* 15: 145-153, 2005.

C. Chapters

1. Beauchamp, M.S. Functional MRI for Cerebral Localization: Principles and Methodology. *Clinical Brain Mapping*, eds. Yoshor, D. and Mizrahi, E. Byrne, J.H. and Roberts, J.L. New York: McGraw-Hill Medical.
2. Beauchamp, M.S. Biological Motion and Multisensory Integration: The Role of the Superior Temporal Sulcus. *The Science of Social Vision*, eds. Adams, R., Ambady, N., Nakayama, K., and Shimojo, S. New York: Oxford University Press.
3. Beauchamp, M.S. The anatomical organization of multisensory integration in the human brain. In *The New Handbook of Multisensory Processes*, ed. Barry Stein. Cambridge: MIT Press.

D. Selected Abstracts

1. Doya, K., Boyle, M.E.T., Beauchamp, M.S., and Sclerston, A.I.: Computational modeling of the musculoskeletal system of the lobster gastric mill. *Soc Neurosci Abstr* 19: 1602, 1993.
2. Beauchamp, M.S., and Sclerston, A.I.: Effects of inferior ventricular nerve stimulation on gastric mill and pyloric central pattern generators in spiny lobster. *Soc Neurosci Abstr* 20: 1413, 1994.
3. Beauchamp, M.S., and DeYoe, E.A.: FMRI of human visual cortex: selective activation by motion-defined figures. *Proc Soc Magn Reson Med* 3: 853, 1995.
4. Beauchamp, M.S., and DeYoe, E.A.: FMRI reveals feature-specific attentional modulation of area MT, V3/V3A and parietal visual areas. *Soc Neurosci Abstr* 21: 1760, 1995.
5. Beauchamp, M.S., and DeYoe, E.A.: FMRI of human and parietal and occipital areas for processing visual motion and their graded modulation by spatial and featural attention. *Soc Neurosci Abstr*: 1198.1193, 1996.

6. Beauchamp, M.S., and DeYoe, E.A.: Brain areas for processing motion and their modulation by selective attention. *NeuroImage* 3: S245, 1996.
7. Biswal, B.B., DeYoe, E.A., Anderson, B.J., Beauchamp, M.S., and Hyde, J.S.: Functional connectivity in the human visual cortex using FMRI. *Society for Magnetic Resonance* 1: 291, 1996.
8. Beauchamp, M.S., Cox, R.W., and DeYoe, E.A.: Graded effects of spatial and featural attention on human area MT and associated motion processing areas. *Neuroimage*, 1997.
9. Beauchamp, M.S., Haxby, J.V., Jennings, J.E., and DeYoe, E.A.: An fMRI adaptation of the Farnsworth-Munsell 100-Hue test reveals human color-selective areas. *Neuroimage*, 1998.
10. Beauchamp, M.S., Haxby, J.V., Jennings, J.E., and DeYoe, E.A.: Multiple color-selective areas in human ventral occipital cortex. *Soc Neurosci Abstr*, 1998.
11. Beauchamp, M.S., Haxby, J.V., and DeYoe, E.A.: fMRI correlates of recovery of function in acquired cerebral dyschromatopsia. *Soc Neurosci Abstr*, 1999.
12. Beauchamp, M.S., Haxby, J.V., Rosen, A.C., and DeYoe, E.A.: A functional MRI case study of acquired cerebral dyschromatopsia. *Cognitive Neuroscience Society Abstracts*: B.211, 2000.
13. Beauchamp, M.S., Petit, L., Ellmore, T.M., Ingeholm, J., and Haxby, J.V.: A parametric study of overt and covert shifts of visuospatial attention. *Neuroimage* 11: S12, 2000.
14. Beauchamp, M.S., Petit, L., Ellmore, T.M., Ingeholm, J., and Haxby, J.V.: A parametric fMRI study of overt and covert shifts of visuospatial attention. *Soc Neurosci Abstr*: 595.592, 2000.
15. Petit, L., Beauchamp, M.S., Ellmore, T.M., Ingeholm, J., Mazoyer, B., and Haxby, J.V.: A new anatomical and functional definition of the human frontal eye fields. *Soc Neurosci Abstr*: 595.591, 2000.
16. Beauchamp, M.S., Lee, K.E., Haxby, J.V., and Martin, A.: Cortical responses to visual motion: complex human and tool motion compared with simple radial gratings. *Neuroimage* 13: S860, 2001.
17. Furey, M.L., Tanskanen, T., Beauchamp, M.S., Avikainen, S., Hari, R., and Haxby, J.V.: Temporal characteristics of selective attention to faces and houses: an MEG study. *Neuroimage* 13: S316, 2001.
18. Beauchamp, M.S., Lee, K.E., Haxby, J.V., and Martin, A.: Parallel Visual Motion Processing Streams In Lateral Temporal Cortex For Manipulable Objects And Human Movements. *Society for Neuroscience Abstracts*: 122.129, 2001.

19. Furey, M.L., Tanskanen, T., Beauchamp, M.S., Avikainen, S., Hari, R., and Haxby, J.V.: Perceptual Selectivity Is Diminished After Shifting Selective Attention Between Object Categories. *Soc Neurosci Abstr* 31: 10.16, 2001.
20. Petit, L., Beauchamp, M.S., Haxby, J.V., and Mazoyer, B.: Head movements activate vestibular cortex and a cortical and subcortical eye movement network, as revealed by fMRI. *Soc Neurosci Abstr*: 784.786, 2001.
21. Beauchamp, M.S., Lee, K.E., Haxby, J.V., and Martin, A.: Parallel Visual Motion Processing Streams In Lateral Temporal Cortex For Manipulable Objects And Human Movements. *Cognitive Neuroscience Society Abstracts*: C.106, 2002.
22. Beauchamp, M.S., Lee, K.E., Martin, A., and Haxby, J.V.: Lateral Temporal Responses To Point-Light Displays of Moving Humans and Manipulable Objects. *Soc Neurosci Abstr*: 721.712, 2002.
23. Van Boven, R.W., Beauchamp, M.S., Ingeholm, J.E., Lee, K.E., and Ungerleider, L.G.: Selective activation of posterior parietal cortex during attention to tactile form. *Soc Neurosci Abstr*: 50.53, 2001.
24. Beauchamp, M.S., Lee, K.E., Haxby, J.V., and Martin, A.: Object category-related activity in auditory cortex. *Neuroimage* 16: S787, 2002.
25. Van Boven, R.W., Beauchamp, M.S., Ingeholm, J.E., Lee, K.E., Bickle, P.C., Marrett, S., and Ungerleider, L.G.: A functional MRI study of selective attention to discriminating tactile form or location. *Soc Neurosci Abstr*: 841.844, 2002.
26. Wheatley, T., Weisberg, J., Beauchamp, M.S., and Martin, A.: Repetition-related decreases in BOLD signal occur with semantic priming. *Soc Neurosci Abstr*: 20.29, 2002.
27. Beauchamp, M.S., Lee, K.E., and Martin, A.: A Region in posterior superior temporal sulcus that integrates auditory and visual information about complex objects. *Neuroimage*: S64, 2003.
28. Saad, Z.S., Argall, B.D., Beauchamp, M.S., Japee, S., and Cox, R.W.: Standard meshes for inter- and intra-subject surface-based analysis with minimal interpolation. *Neuroimage*: S1145, 2003.
29. Beauchamp, M.S., Lee, K.E., and Martin, A.: Regions in Temporoparietal Junction and Posterior Superior Temporal Gyrus That Integrate Auditory and Visual Information about Complex Objects. *Cognitive Neuroscience Society Abstracts*: E.319, 2003.
30. Beauchamp, M.S., Lee, K.E., Argall, B.D., and Martin, A.: Integration of auditory and visual information about objects in superior temporal sulcus and middle temporal gyrus. *Soc Neurosci Abstr*: 590.515, 2003.

31. Argall, B.D., Saad, Z.S., Martin, A., and Beauchamp, M.S.: A comparison between surface and volume-based averaging techniques for cross-subject fMRI analysis. Soc Neurosci Abstr: 863.812, 2003.
32. Saad, Z.S., Argall, B.D., Beauchamp, M.S., Japee, S., and Cox, R.W.: Standard cortical surface models for node-based cross-subject analysis. Soc Neurosci Abstr: 863.865, 2003.
33. Beauchamp, M.S., Argall, B.D., Bodurka, J., Francis, N., Duyn, J.H., and Martin, A.: Parallel imaging reveals patchy organization within the superior temporal sulcus multimodal region. Neuroimage: S709, 2004.
34. Beauchamp, M.S., Argall, B.D., Bodurka, J., Francis, N., Duyn, J.H., and Martin, A.: Parallel imaging reveals patchy organization within the superior temporal sulcus multimodal region. Soc Neurosci Abstr: 528.515, 2004.
35. Gold B.T., Balota D.A., Powell D.K., Beauchamp M.S., Smith C.D., and Andersen A.H. Neural Correlates of Early Orthographic and Semantic Components of Visual Word Recognition. Neuroimage S284, 2006.
36. Yasar, E. and Beauchamp, M.S.: A variable-amplitude multichannel vibrotactile somatosensory stimulator for fMRI. Society for Neuroscience Abstracts:804.25, 2006.
37. Murphey, D. K., Yoshor, D., Bosking, W. H., Maunsell, J. H., and Beauchamp, M. S.: Studying Visual Perception in Human Subjects With fMRI and Intracranial Electrical Stimulation Society for Neuroscience Abstracts, 2007.
38. Beauchamp, M. S., Yasar, N. E., Kishan, N., and Ro, T.: Human MST but not MT responds to tactile stimulation. Society for Neuroscience Abstracts, 2007.
39. Ro, T., Hsu, J., Yasar, N. E., Elmore, L. C., and Beauchamp, M. S.: Sound Enhances Tactile Perception. Abstracts of the Psychonomics Society Annual Meeting, 2007.
40. Ellmore, T. M., Beauchamp, M. S., O'Neill, T. J., Ro, T., and Tandon, N.: Medial frontal connectivity to language-activated lateral frontal cortex examined with functional and diffusion-weighted MRI. Society for Neuroscience Abstracts, 2007.
41. Ellmore, T. M., O'Neill, T. J., Slater, J. D., Kalamangalam, G., Beauchamp, M. S., and Tandon, N.: Lateralized connectivity of posterior inferior frontal gyrus and SMA. American Epilepsy Society Annual Meeting, 2007.
42. Tandon, N., Ellmore, T. M., O'Neill, T. J., Slater, J. D., Breier, J. I., and Beauchamp, M. S.: Rapid identification of the arcuate fasciculus using an FA thresholding technique. American Association of Neurological Surgeons, 2008.
43. Tandon, N., O'Neill, T. J., Beauchamp, M. S., and Ellmore, T. M.: Rapid identification of the arcuate fasciculus using an FA thresholding technique. American Epilepsy Society Annual Meeting, 2007.

44. Ellmore, T., Beauchamp, M.S., Slater, J., Breier, J., O'Neill T., Tandon, N.: Language Laterality Determined from High Anisotropy Arcuate Fasciculus Tracts. Organization for Human Brain Mapping Annual Meeting, 2008.
45. Cox, R., Saad, Z., Glen, D., Beauchamp, M.S., Desai, R.: False Sense of EPI-to-Structural Alignment with Common Cross-Modality Registration Methods. Organization for Human Brain Mapping Annual Meeting, 2008.
46. Beauchamp, M.S., Murphey, D., Yoshor, D.: Electrical Stimulation, Recording and BOLD fMRI of the Human Anterior Color Center. Organization for Human Brain Mapping Annual Meeting, 2008.
47. Ellmore, T., Beauchamp, M.S., O'Neill T., Dreyer, S., Tandon, N.: Direct stimulation of the arcuate fasciculus. Society for Neuroscience Annual Meeting, 2008.
48. Beauchamp, M. S., Yasar, N. E., Frye, R. E., Ro, T.: Touch, Sound and Vision in Human Superior Temporal Sulcus. Society for Neuroscience Annual Meeting, 2008.
49. Beauchamp, M.S., LaConte S., Yasar, N. Distributed representation of single touches in somatosensory and visual cortex. Organization for Human Brain Mapping Annual Meeting, 2009.
50. Murphey, D., Maunsell, J.H.R., Yoshor, D., Beauchamp, M.S. Perceiving electrical stimulation of identified human visual areas. Organization for Human Brain Mapping Annual Meeting, 2009.
51. Dreyer, S., Ellmore, T.M., Beauchamp, M.S., O'Neill T.J., Tandon, N. A current density map of language: Comparison of cortical stimulation mapping and fMRI. Organization for Human Brain Mapping Annual Meeting, 2009.
52. Ellmore, T.M., Beauchamp, M.S., O'Neill T.J., Tandon, N. White matter asymmetry predictors of language laterality. Society for Neuroscience Annual Meeting, 2009.
53. Pasalar, S., Ro, T., Beauchamp, M.S. MRI-guided TMS of parietal cortex disrupts visual-tactile multisensory integration. Society for Neuroscience Annual Meeting, 2009.
54. Beauchamp, M.S., Pasalar, S., Ro, T. Reliability-weighted processing of vision and touch: Behavioral and fMRI studies. Society for Neuroscience Annual Meeting, 2009.
55. Nath, A., Beauchamp, M. S. Functional connectivity from auditory and visual cortex to multisensory superior temporal sulcus during audiovisual speech depends on modality reliability. Society for Neuroscience Annual Meeting, 2009.
56. Pasalar, S., Ro, T., Beauchamp, M.S. TMS of posterior parietal cortex disrupts visual-tactile multisensory integration. Organization for Human Brain Mapping Annual Meeting, 2010.

57. Beauchamp, M.S., Nath, A., Pasalar, S. fMRI-guided TMS reveals that the STS is a cortical locus of the McGurk effect. Organization for Human Brain Mapping Annual Meeting, 2010.
58. Nath, A., Beauchamp, M. S. Neural Mechanisms for Reliability-Weighted Speech Perception. Organization for Human Brain Mapping Annual Meeting, 2010.
59. Nath, A., Beauchamp, M. S. Intersubject differences in the STS account for variability in the perception of the McGurk effect. Society for Neuroscience Annual Meeting, 2010.
60. Beauchamp, M.S., Nath, A., Pasalar, S. fMRI-guided transcranial magnetic stimulation reveals that the superior temporal sulcus is a cortical locus of the McGurk effect. Society for Neuroscience Annual Meeting, 2010.